

DERWENT-ACC-NO: 1998-341024
DERWENT-WEEK: 199830
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TITLE: Ultrasonic diagnostic and medical treatment apparatus - supplies ultrasonic propagation medium for propagation of ultrasonic waves via first and second tubes which are connected to space formed between spherical piezoelectric element and both ends of housing

PATENT-ASSIGNEE: OLYMPUS OPTICAL CO LTD[OLYU]

PRIORITY-DATA: 1996JP-0290137 (October 31, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES	MAIN-IPC	
JP 10127678 A	May 19, 1998	N/A
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APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
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INT-CL (IPC): A61B017/36; A61F007/00

ABSTRACTED-PUB-NO: JP10127678A

BASIC-ABSTRACT: The apparatus (1) has an ultrasonic probe (3) provided with a spherical piezoelectric element (15) which generates ultrasonic wave for medical treatment. The piezoelectric element is fixed in a housing (11) of an ultrasonic vibrator (13). A first space (17) is formed between the concave side of the piezoelectric element and vinyl chloride film (16) is formed at one end of the housing.

A second space (19) is formed between the convex side of piezoelectric element

and end face of an acoustic lens (18). A medium supply unit supplies ultrasonic propagation medium for propagation of ultrasonic wave via a multi-lumen tube. The multi-lumen tube includes a first tube (20) which is connected to the first space and second tube (21) which is connected to the second space.

ADVANTAGE - Consumes less time for treatment. Operates in simple manner.

CHOSEN-DRAWING: Dwg.2/11

TITLE-TERMS:

ULTRASONIC DIAGNOSE MEDICAL TREAT APPARATUS SUPPLY
ULTRASONIC PROPAGATE MEDIUM
PROPAGATE ULTRASONIC WAVE FIRST SECOND TUBE CONNECT SPACE
FORMING SPHERE
PIEZOELECTRIC ELEMENT END HOUSING

DERWENT-CLASS: P31 P32 S03 S05

EPI-CODES: S03-E08E; S05-B02; S05-D03;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1998-267169